

In the Claims

1-25 (canceled).

26 (currently amended). A labeled angiogenesis inhibiting molecule comprising a label and an angiogenesis inhibiting molecule selected from:

- (a) the antibody H33, produced by hybridoma 13H33 as deposited with the Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH under the deposit accession number DSM ACC2622, and/or antigen binding fragments or derivatives thereof that have the same specificity as H33;
- (b) a humanized antibody based on H33 and having the binding specificity of the H33 antibody same specificity as antibody H33;
- (b)(c) a chimeric antibody based on H33 and having the binding specificity of the H33 antibody same specificity as antibody H33;
- (d) a fragment of H33 selected from:
 - (i) a Fab fragment;
 - (ii) a Fv fragment;
 - (iii) a single domain antigen binding fragment V_{HS};
 - (iv) a scFv, a dimer of a scFv, a trimer of a scFv and/or a larger aggregate of a scFv; or
 - (v) V_{HH};
- (e) a recombinant antibody having the binding specificity of the H33 antibody H33; or
- (f) a human monoclonal antibody having the binding specificity of the H33 antibody H33.

27 (currently amended). ~~The composition of matter~~ labeled angiogenesis inhibiting molecule according to claim 26, wherein said labeled angiogenesis inhibiting molecule further

comprises one or two non-immunoglobulin moieties selected from cytokines, interleukins, hematopoietic factors, lymphokines, interferons, or chemokines.

28 (canceled).

29 (currently amended). The composition of matter labeled angiogenesis inhibiting molecule according to claim 26, wherein said labeled angiogenesis inhibiting molecule:

- a) blocks angiogenesis *in vitro* and *in vivo*;
- b) prevents tumor growth *in vivo*;
- c) reduces the recruitment of macrophages into tumors; and
- d) blocks the interaction of JAM-C with JAM-B.

30-41 (canceled).

42 (currently amended). A method of binding an a labeled angiogenesis inhibiting molecule to JAM-C comprising contacting a sample, under conditions that allow for the binding of said labeled angiogenesis inhibiting molecule to JAM-C, with a composition comprising:

- (a) an a labeled angiogenesis inhibiting molecule comprising a label and:
 - (i) the antibody H33, produced by hybridoma 13H33 as deposited with the Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH under the deposit accession number DSM ACC2622, and or antigen binding fragments or derivatives thereof that have the binding specificity of the H33 antibody same specificity as H33;
 - (ii) a humanized antibody based on H33 and having the binding specificity of the H33 antibody same specificity as antibody H33;
 - (iii) a chimeric antibody based on H33 and having the binding specificity of the H33 antibody same specificity as antibody H33;
 - (iv) a fragment of H33 selected from:
 - (A) a Fab fragment;

- (B) a Fv fragment;
 - (C) a ~~single domain antigen binding fragment V_{HS}~~;
 - (D) a scFv, a dimer of a scFv, a trimer of a scFv ~~and or~~ a larger aggregate of a scFv; or
 - (E) V_{HH};
- (v) a recombinant antibody having the binding specificity of the H33 antibody; or
 - (vi) a human monoclonal antibody having the binding specificity of the H33 antibody; and
- (b) a suitable excipient, carrier or diluent.

43 (currently amended). The method according to claim 42, wherein said method further comprises the detection of the binding of JAM-C to said labeled angiogenesis inhibiting molecule.

44 (previously presented). The method according to claim 43, wherein said sample is a tissue sample, a body fluid sample or a cell sample.

45 (previously presented). The method according to claim 43, wherein said method is *ex vivo* or *in vitro*.

46 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is the antibody H33, produced by hybridoma 13H33 as deposited with the Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH under the deposit accession number DSM ACC2622, or antigen binding fragments thereof.

47 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is a humanized antibody based on H33 and having the binding specificity of the H33 antibody.

48 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is a chimeric antibody based on H33 and having the binding specificity of the H33 antibody.

49 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is an Fab fragment of H33.

50 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is a Fv fragment of H33.

51 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is a V_HS of H33.

52 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is a scFv, a dimer of a scFv, a trimer of a scFv or a larger aggregate of a scFv of H33.

53 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is an V_{HH} of H33.

54 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is an a recombinant antibody having the binding specificity of the H33 antibody.

55 (new). The labeled angiogenesis inhibiting molecule according to claim 26, wherein said angiogenesis inhibiting molecule is a human monoclonal antibody having the binding specificity of the H33 antibody.